Ultramicroscopy 22 (1987) 325–326
North-Holland, Amsterdam

AUTHOR INDEX TO VOLUME 22

Ahn, C.C., see Krivanek 22 (1987) 103
Allard, L.F., J.S. Brinen, F.P. Daly and A.J. Garratt-Reed, High resolution electron microscopy and microanalysis of carbon-supported hydrodesulfurization catalysts 22 (1987) 135
Andersen, A., see Gjønnes 22 (1987) 289

Batson, P.E., K.L. Kavanagh, C.Y. Wong and J.M. Woodall, Local bonding and electronic structure obtained from electron energy loss scattering 22 (1987) 89
Batstone, J.L., see Gibson 22 (1987) 35
Birtcher, R.C. and W. Jäger, Precipitation and phase stability of solid Kr in cavities after room-temperature implantation of Al 22 (1987) 267
Bischoff, E., see Bonnell 22 (1987) 191
Bomback, J.L., see Donlon 22 (1987) 305
Bonnell, D. and E. Bischoff, Uncertainty analysis for low P:B XEDS measurements – variation of aluminum in silicon nitride 22 (1987) 191
Bradley, S.A., see Robota 22 (1987) 149
Brinen, J.S., see Allard 22 (1987) 135
Broach, R.W., see Robota 22 (1987) 149
Brodsky, M.B., see Morrison 22 (1987) 125
Broussaud, D., see Westmacott 22 (1987) 15
Burger, K., W. Mader and M. Rühle, Structure, chemistry and diffusion bonding of metal/ceramic interfaces 22 (1987) 1

Capone II, D.W., see Ho 22 (1987) 297
Chaim, R., see Heuer 22 (1987) 27
Cheng, C.C., see Pelton 22 (1987) 251
Chumbley, L.S., see Ho 22 (1987) 297
Cowley, J.M., see Ou 22 (1987) 207

Daly, F.P., see Allard 22 (1987) 135
Danyluk, S., see Lee 22 (1987) 319
Donlon, W.T., J.V. James, J.L. Bomback, C.R. Huo and C.C. Wang, Characterization of ion implanted silicon: correlation of optical measurements with microstructural observations 22 (1987) 305

Eyring, L., see Kang 22 (1987) 71
Eyring, L., see Sharma 22 (1987) 81

Fraundorf, P., Determining the 3D lattice parameters of nanometer-sized single crystals from images 22 (1987) 225

Garratt-Reed, A.J., see Allard 22 (1987) 135
Gibson, J.M., M.L. McDonald, J.L. Batstone and J.M. Phillips, High-resolution electron microscopy of interfaces and surfaces 22 (1987) 35
Gjønnes, J., see Skjerpe 22 (1987) 239
Gjønnes, K. and A. Andersen, Scale structures during oxidation and sulphidation of nickel and a nickel–chromium alloy 22 (1987) 289
Gray, K.E., see Ho 22 (1987) 297

Heuer, A.H., V. Lanteri and R. Chaim, HREM of coherent precipitates in ZrO_2 alloys 22 (1987) 27
Ho., H.L., R.T. Kampwirth, K.E. Gray, D.W. Capone II, L.S. Chumbley and M. Meshii, Electron microscopy study of sputtered NbN films 22 (1987) 297
Hsu, T. and L.-M. Peng, Experimental studies of atomic step contrast in reflection electron microscopy (REM) 22 (1987) 217
Huo, C.R., see Donlon 22 (1987) 305

Ishida, Y., see Miyazawa 22 (1987) 231

Jäger, W., see Birtcher 22 (1987) 267
James, J.V., see Donlon 22 (1987) 305

Kampwirth, R.T., see Ho 22 (1987) 297
Kang, Z.C., L. Eyring and D.J. Smith, Dynamic edge and surface processes in terbium oxide 22 (1987) 71
Kavanagh, K.L., see Batson 22 (1987) 89
Keeney, R.B., see Krivanek 22 (1987) 103
Kelly, T.F., An experimental X-ray detector efficiency function determined using pure submicron spheres: an approach to quantification 22 (1987) 175
Kitajima, K., see Muroga 22 (1987) 281
Krakow, W. and D.A. Smith, A high-resolution electron microscopy investigation of some low-angle and twin boundary structures 22 (1987) 47
Krivanek, O.L., C.C. Ahn and R.B. Keeney, Parallel detection electron spectrometer using quadrupole lenses 22 (1987) 103

Laabs, F.C., see Pelton 22 (1987) 251
Langsrud, Y., see Skjerpe 22 (1987) 239
Lanteri, V., see Heuer 22 (1987) 27
Laval, J.Y., see Westmacott 22 (1987) 15
Lee, S.W., C. Scott and S. Danyluk, Temperature variation of indentation damage in (100) GaAs single crystals 22 (1987) 319
Lyman, C.E., H.G. Stenger, Jr. and J.R. Michael, Analytical electron microscopy of a sulfur-poisoned palladium catalyst with a dedicated STEM 22 (1987) 129

Mader, W., see Burger 22 (1987) 1
McDonald, M.L., see Gibson 22 (1987) 35
Merkle, K.L. and D.J. Smith, Atomic resolution microscopy of NiO grain boundaries 22 (1987) 57
Meshii, M., see Ho 22 (1987) 297
Michael, J.R., see Lyman 22 (1987) 129
Miyazawa, K. and Y. Ishida, Weak-beam a-fringe electron microscopy of interface structures 22 (1987) 231
Morrison, T.I., M.B. Brodsky and N.J. Zaluzec, EELS as a probe of d-band occupancy in magnetic alloys 22 (1987) 125
Muroga, T., N. Yoshida and K. Kitajima, EDS investigation of solute–precipitate interactions in ferritic steels under irradiation 22 (1987) 281

Naday, I., see Strauss 22 (1987) 117

Ou, H.-J. and J.M. Cowley, SREM of MgO crystal surface structure and in-situ-deposited metallic particles on MgO surface 22 (1987) 207

Pelton, A.R., F.C. Laabs, W.A. Spitzig and C.C. Cheng, Microstructural analysis of in-situ Cu–Nb composite wires 22 (1987) 251
Peng, L.-M., see Hsu 22 (1987) 217
Phillips, J.M., see Gibson 22 (1987) 35
Pinnavaia, T.J., see Rightor 22 (1987) 159

Rightor, E.G. and T.J. Pinnavaia, STEM studies of ruthenium dispersed on a pillared clay Fischer–Tropsch catalyst 22 (1987) 159
Robota, H.J., R.W. Broach, J.W.A. Sachtler and S.A. Bradley, Characterization of model Pt–Rh automative exhaust control catalysts by EXAFS, STEM and XRD 22 (1987) 149
Rühle, M., see Burger 22 (1987) 1

Sachtler, J.W.A., see Robota 22 (1987) 149
Scott, C., see Lee 22 (1987) 319
Sharma, R. and L. Eyring, Rubidium chromium fluoride structures of the hexagonal tungsten bronze type 22 (1987) 81
Sherman, I.S., see Strauss 22 (1987) 117
Skjerpe, P., J. Gjønnes and Y. Langsrud, Solidification structure and primary Al–Fe–Si particles in direct-chilled-cast aluminium alloys 22 (1987) 239
Smith, D.A., see Krakow 22 (1987) 47
Smith, D.J., see Merkle 22 (1987) 57
Smith, D.J., see Kang 22 (1987) 71
Spitzig, W.A., see Pelton 22 (1987) 251
Stenger, Jr., H.G., see Lyman 22 (1987) 129
Strauss, M.G., I. Naday, I.S. Sherman and N.J. Zaluzec, CCD-based parallel detection system for electron energy-loss spectroscopy and imaging 22 (1987) 117

Thorel, A., see Westmacott 22 (1987) 15

Vitek, J.M., Influence of segregation on the diffraction effects from homophase interfaces 22 (1987) 197

Wang, C.C., see Donlon 22 (1987) 305
Westmacott, K.H., A. Thorel, D. Broussaud and J.Y. Laval, Microstructural changes in (Mg) PSZ during aging at 1000 °C 22 (1987) 15
Wong, C.Y., see Batson 22 (1987) 89
Woodall, J.M., see Batson 22 (1987) 89

Yoshida, N., see Muroga 22 (1987) 281

Zaluzec, N.J., see Strauss 22 (1987) 117
Zaluzec, N.J., see Morrison 22 (1987) 125

Ultramicroscopy 22 (1987) 327–329
North-Holland, Amsterdam

SUBJECT INDEX TO VOLUME 22

Analytical electron microscopy

Frontiers of Electron Microscopy in Materials Science, *Eds. Bradley and King* 22 (1987) vii

Local bonding and electronic structure obtained from electron energy loss scattering, *Batson, Kavanagh, Wong and Woodall* 22 (1987) 89

Parallel detection electron spectrometer using quadrupole lenses, *Krivanek, Ahn and Keeney* 22 (1987) 103

CCD-based parallel detection system for electron energy-loss spectroscopy and imaging, *Strauss, Naday, Sherman and Zaluzec* 22 (1987) 117

EELS as a probe of d-band occupancy in magnetic alloys, *Morrison, Brodsky and Zaluzek* 22 (1987) 125

Analytical electron microscopy of a sulfur-poisoned palladium catalyst with a dedicated STEM, *Lyman, Stenger and Michael* 22 (1987) 129

High resolution electron microscopy and microanalysis of carbon-supported hydrodesulfurization catalysts, *Allard, Brinen, Daly and Garratt-Reed* 22 (1987) 135

Characterization of model Pt–Rh automotive exhaust control catalysts by EXAFS, STEM and XRD, *Robota, Broach, Sachtler and Bradley* 22 (1987) 149

STEM studies of ruthenium dispersed on a pillared clay Fischer–Tropsch catalyst, *Rightor and Pinnavaia* 22 (1987) 159

An experimental X-ray detector efficiency function determined using pure submicron spheres: an approach to quantification, *Kelly* 22 (1987) 175

Uncertainty analysis for low P:B XEDS measurements – variation of aluminum in silicon nitride, *Bonnell and Bischoff* 22 (1987) 191

Microstructural analysis of in-situ Cu–Nb composite wires, *Pelton, Laabs, Spitzig and Cheng* 22 (1987) 251

Characterization of ion-implanted silicon: correlation of optical measurements with microstructural observations, *Donlon, James, Bomback, Huo and Wang* 22 (1987) 305

Diffraction and optical diffraction

Influence of segregation on the diffraction effects from homophase interfaces, *Vitek* 22 (1987) 197

SREM of MgO crystal surface structure and in-situ-deposited metallic particles on MgO surface, *Ou and Cowley* 22 (1987) 207

Experimental studies of atomic step contrast in reflection electron microscopy (REM), *Hsu and Peng* 22 (1987) 217

Determining the 3D lattice parameters of nanometer-sized single crystals from images, *Fraundorf* 22 (1987) 225

Weak-beam α-fringe electron microscopy of interface structures, *Miyazawa and Ishida* 22 (1987) 231

Solidification structure and primary Al–Fe–Si particles in direct-chilled-cast aluminium alloys, *Skjerpe, Gjønnes and Langsrud* 22 (1987) 239

Microstructural analysis of in-situ Cu–Nb composite wires, *Pelton, Laabs, Spitzig and Cheng* 22 (1987) 251

Precipitation and phase stability of solid Kr in cavities after room-temperature implantation of Al, *Birtcher and Jäger* 22 (1987) 267

EDS investigation of solute–precipitate interactions in ferritic steels under irradiation, *Muroga, Yoshida and Kitajima* 22 (1987) 281

Scale structures during oxidation and sulphidation of nickel and a nickel–chromium alloy, *Gjønnes and Andersen* 22 (1987) 289

Electron microscopy study of sputtered NbN films, *Ho, Kampwirth, Gray, Capone, Chumbley and Meshii* 22 (1987) 297

Characterization of ion implanted silicon: correlation of optical measurements with microstructural observations, *Donlon, James, Bomback, Huo and Wang* 22 (1987) 305

Temperature variation of indentation damage in (100) GaAs single crystals, *Lee, Scott and Danyluk* 22 (1987) 319

Electron energy loss spectroscopy

Frontiers of Electron Microscopy in Materials Science, *Eds. Bradley and King* 22 (1987) vii

Local bonding and electronic structure obtained from electron energy loss scattering, *Batson, Kavanagh, Wong and Woodall* 22 (1987) 89

Parallel detection electron spectrometer using quadrupole lenses, *Krivanek, Ahn and Keeney* 22 (1987) 103

CCD-based parallel detection system for electron energy-loss spectroscopy and imaging, *Strauss, Naday, Sherman and Zaluzec* 22 (1987) 117

EELS as a probe of d-band occupancy in magnetic alloys, *Morrison, Brodsky and Zaluzec* 22 (1987) 125

Electron probe microanalysis

Characterization of model Pt–Rh automotive exhaust control catalysts by EXAFS, STEM and XRD, *Robota, Broach, Sachtler and Bradley* 22 (1987) 149

An experimental X-ray detector efficiency function determined using pure submicron spheres: an approach to quantification, *Kelly* 22 (1987) 175

Uncertainty analysis for low P:B XEDS measurements – variation of aluminum in silicon nitride, *Bonnell and Bischoff* 22 (1987) 191

High resolution

Frontiers of electron microscopy in materials science, *Eds. Bradley and King* 22 (1987) vii

Structure, chemistry and diffusion bonding of metal/ceramic interfaces, *Burger, Mader and Rühle* 22 (1987) 1

Microstructural changes in (Mg) PSZ during aging at 1000 °C, *Westmacott, Thorel, Broussard and Laval* 22 (1987) 15

HREM of coherent precipitates in ZrO_2 alloys, *Heuer, Lanteri and Chaim* 22 (1987) 27

High-resolution electron microscopy of interfaces and surfaces, *Gibson, McDonald, Batstone and Phillips* 22 (1987) 35

A high-resolution electron microscopy investigation of some low-angle and twin boundary structures, *Krakow and Smith* 22 (1987) 47

Atomic resolution microscopy of NiO grain boundaries, *Merkle and Smith* 22 (1987) 57

Dynamic edge and surface processes in terbium oxide, *Kang, Eyring and Smith* 22 (1987) 71

Rubidium chromium fluoride structures of the hexagonal tungsten bronze type, *Sharma and Eyring* 22 (1987) 81

Analytical electron microscopy of a sulfur-poisoned palladium catalyst with a dedicated STEM, *Lyman, Stenger and Michael* 22 (1987) 129

High resolution electron microscopy and microanalysis of carbon-supported hydrodesulfurization catalysts, *Allard, Brinen, Daly and Garratt-Reed* 22 (1987) 135

Imaging

CCD-based parallel detection system for electron energy-loss spectroscopy and imaging, *Strauss, Naday, Sherman and Zaluzec* 22 (1987) 117

Instrumentation

Frontiers of Electron Microscopy in Materials Science, *Eds. Bradley and King* 22 (1987) vii

Parallel detection electron spectrometer using quadrupole lenses, *Krivanek, Ahn and Keeney* 22 (1987) 103

CCD-based parallel detection system for electron energy-loss spectroscopy and imaging, *Strauss, Naday, Sherman and Zaluzec* 22 (1987) 117

Radiation damage and contamination

EDS investigation of solute–precipitate interactions in ferritic steels under irradiation, *Muroga, Yoshida and Kitajima* 22 (1987) 281

Scanning transmission electron microscopy

Characterization of model Pt–Rh automotive exhaust control catalysts by EXAFS, STEM and XRD, *Robota, Broach, Sachtler and Bradley* 22 (1987) 149

STEM studies of ruthenium dispersed on a pillared clay Fischer–Tropsch catalyst, *Rightor and Pinnavaia* 22 (1987) 159

Surfaces, clusters, interfaces and particles

Frontiers of Electron Microscopy in Materials Science, *Eds. Bradley and King* 22 (1987) vii

Structure, chemistry and diffusion bonding of metal/ceramic interfaces, *Burger, Mader and Rühle* 22 (1987) 1

Microstructural changes in (Mg) PSZ during aging at 1000 °C, *Westmacott, Thorel, Broussard and Laval* 22 (1987) 15

HREM of coherent precipitates in ZrO_2 alloys, *Heuer, Lanteri and Chaim* 22 (1987) 27

High-resolution electron microscopy of interfaces and surfaces, *Gibson, McDonald, Batstone and Phillips* 22 (1987) 35

A high-resolution electron microscopy investigation of some low-angle and twin boundary structures, *Krakow and Smith* 22 (1987) 47

Atomic resolution microscopy on NiO grain boundaries, *Merkle and Smith* 22 (1987) 57

Dynamic edge and surface processes in terbium oxide, *Kang, Eyring and Smith* 22 (1987) 71

Analytical electron microscopy of a sulfur-poisoned palladium catalyst with a dedicated STEM, *Lyman, Stenger and Michael* 22 (1987) 129

High resolution electron microscopy and microanalysis of carbon-supported hydrodesulfurization catalysts, *Allard, Brinen, Daly and Garratt-Reed* 22 (1987) 135

STEM studies of ruthenium dispersed on a pillared clay Fischer–Tropsch catalyst, *Rightor and Pinnavaia* 22 (1987) 159

An experimental X-ray detector efficiency function determined using pure submicron spheres: an approach to quantification, *Kelly* 22 (1987) 175

Influence of segregation on the diffraction effects from homophase interfaces, *Vitek* 22 (1987) 197
SREM of MgO crystal surface structure and in-situ-deposited metallic particles on MgO surface, *Ou and Cowley* 22 (1987) 207
Determining the 3D lattice parameters of nanometer-sized single crystals from images, *Fraundorf* 22 (1987) 225
Weak-beam α-fringe electron microscopy of interface structures, *Miyazawa and Ishida* 22 (1987) 231
Scale structures during oxidation and sulphidation of nickel and a nickel–chromium alloy, *Gjønnes and Andersen* 22 (1987) 289
Electron microscopy study of sputtered NbN films, *Ho, Kampwirth, Gray, Capone, Chumbley and Meshii* 22 (1987) 297